

The PHL 4100 is a handheld touch screen terminal based on Linux™ operating system. It has an integrated barcode laser scanner. Features are: 64 bit MPU, 32 MB RAM, 32 MB FlashROM, graphic LCD display, full alpha keypad, IrDA and PCMCIA interface. PCMCIA enables data exchange through Wireless LAN, GSM/GPRS, Fast Ethernet, or Compact Flash.

Handheld terminal

PHL 4100

Handheld touchscreen terminal



Features

- Linux™ operating system
- Laser scan engine
- Integrated PCMCIA interface
- Resistive LCD touch screen
- Keyboard: one character per key and 3 modes (upper case, lower case, numeric)
- Small size and light weight (ca. 285 g)

Benefits

- Availability of Linux™ allows easy programming
- Enables touch- and variable distance reading
- Several wireless data exchange options and mobile network connectivity
- Interactive navigation and operation
- Quick input of data and easy case changes
- Easy to handle

Cabled

Wireless

Stationary

OEM

OPTICON
always scanning for new ID's

Specifications

PHL 4100 Handheld touchscreen terminal

Electrical specifications

Main battery pack	Li-Ion Pack (1cell:UF-1011) 7V, 1700mAh
Backup battery	Lithium (CR2032)

Optical specifications

Light source	650 nm visible laser diode
Scan rate	100 scans/sec
Decode rate	100 decodes/sec
Reading angle	54°, effective 44°
Reading pitch angle	± 35°
Reading skew angle	+8 - +50°, -8 - -50°
Reading tilt angle	± 20°
Curvature	R>15 (a EAN8), R>20 (a EAN13)
Min. PCS value	0.45

Identification

Supported barcode symbologies	Chinese Post - Codabar ABC and CX - Code 39 - Code 39 Full ASCII - Code 93 - Code 128 - EAN-8 incl. +2,+5 - EAN-13 incl. +2,+5 - EAN-128 - IATA - ISBN - ISSN - Industrial 2of5 - Interleaved 2of5 - Italian Pharmaceutical - Matrix 2 of 5 - MSI/Plessey - UK/Plessey - Telepen - TriOptic - S-Code - UPC-A incl. +2,+5 - UPC-E incl. +2,+5
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Functionality

Memory FlashROM	32 MB
Memory RAM	32 MB SDRAM
Microprocessor	64-bit, 131 MHz, NEC VR4121
Real time clock	Quartz RTC, time and date programmable, leap year handling, (accuracy +/- 60 sec./month)
Display	160x240 Pixels graphic LCD with backlight
Keyboard	34 keys total: Matrix keypad, Power key, Modus key, Scan key
Keyboard mode	Alpha Upper case / Alpha Lower case / Numeric
Input devices	Touch panel, Stylus, Alpha-Numeric keypad, Barcode scanner
Programming	Functionality is provided by user application.
Interface RS232	supported by cradle
Interface IrDA	supported on terminal
Interface PCMCIA	PCMCIA 16-bit Wireless LAN: Cisco Aironet 350 series (2.4 GHz Spread Spectrum / Wi-Fi - IEEE 802.11b) GSM/GPRS: Option Globetrotter (Tri-band 900/1800/1900) Fast Ethernet: Sitecom 10/100 Mbps Compact Flash: SanDisk/Princeton with adapter
Transmission speed IrDA	baudrate: 2400 - 115200 bps

Environmental specifications

Temperature in operation	-10 - +40 °C
Temperature in storage	-20 - +60 °C
Humidity in operation	10 - 90 % (non condensing)
Humidity in storage	5 - 95 % (non condensing)
Ambient fluorescent light rejection	4.000 Lux max.
Ambient white light rejection	4.000 Lux max.
Ambient direct sun light rejection	80.000 luce max.
Shock drop test	1.5 m drop onto concrete surface
Protection (dust and moisture, IEC529)	IP 54

Physical specifications

Dimensions	(l x w x d) 186 x 66 x 33 mm
Weight body	285 g (incl. battery, excl. PCMCIA card)

Regulatory

Laser safety class	IEC 825, Class I laserproduct
EMC	EN 55022, EN 55024

IRU 4100 Charging and communication cradle for PHL 4X00 series

Electrical specifications

Battery charging time	when battery in terminal: 8 hours charge
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Functionality

Parity	Odd, Even, None
Interface RS232	supported
Interface RS485	supported
Transmission speed	baud rate: 1200 - 115200 bps
Transmission modes	half duplex RS232 / half duplex RS485

Environmental specifications

Temperature in operation	0 - +40 °C
Temperature in storage	-20 - +60 °C
Humidity in operation	30 - 85 % (non condensing)
Humidity in storage	30 - 90 % (non condensing)
Shock vibration test	10 - 50 Hz with 1G for 30 min, cycle for X,Y,Z.

Physical specifications

Dimensions	(l x w x h) 150 x 90 x 81 mm
Case material	ABS
Weight body	250 g
Connector RS232	D Sub 9P F
Connector RS485	6 pins modular plug

Regulatory

EMC	EN 55022, EN 55024
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